Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work: Drilling of Borewell in Ward No.13 in Shettyhalli Sub Division.

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
					Est .Cost Rs.40.00 Lakhs				
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and								
		No.s	4				4.00	2032.56	**8130.24**
2	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing								
	0.00 to 50.00 Mtr.	Mtr	4	50.00			200.00	330.48	**66096.00**
	50.00 to 100.00 Mtr.	Mtr	4	50.00			200.00	432.00	**86400.00**
	100.00 to 150.00 Mtr.	Mtr	4	50.00			200.00	480.60	**96120.00**
	150.00 to 200.00 Mtr.	Mtr	4	50.00			200.00	507.60	**101520.00**
	200.00 to 250.00 Mtr.	Mtr	4	50.00			200.00	587.52	**117504.00**
	250.00 to 300.00 Mtr.	Mtr	4	50.00			200.00	629.64	**125928.00**
	300.00 to 350.00 Mtr	Mtr	4	50.00			200.00	780.00	**156000.00**
3	Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continous welded midle steel tube material confirming to IS 1387/1993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes) (P.NO-III, I.NO-84, PRED								
	Casing Pipe	Mtr	4	40.00			160.00	**1325.00**	**212000.00**
4	Additional rate on Item No.2 is allowed for drilling in over burden and folling casing pipes beyond 20mtrs, rate at 15% and beyond 30mtrs 30% on basic rate of Rs.306 is allowed								
a	Above 20mtrs and upto 30mtrs	mtrs	4			10	40.00	45.90	**1836.00**
5	Providing 175 mm dia M.S. Collar (P.NO-II, I.NO-86, PRED 12-13 SR)								
		Each	4	10			40	**150**	**6000.00**
6	Providing 175mm M.S Cap(P.NO-II, I.NO-85, PRED 12-13 SR)								
		Each	4	1.00			4.00	**150.00**	**600.00**

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7	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from								
	15 HP Motor	Set	3				3	**73494.68**	**220484.04**
8	Supplying and Drawing 3 core Flat PVC Shalted Submersible pump cable Manufactured with Electrolytic Grade copper with Flexiblecopper conductor to table 3 class 5 of IS 8130-1984 and virgen PVC insulation and Sheeated suitable for working Voltage Upto 1100 Volts BWSSB SR								
		Mtrs	3x2	240			1440		
			3	9			27		
							1467	**188.70**	**276822.90**
9	Supply and fixing 50mm Non return valve of vertical type of approved make including cost of all materials labour HOM of equipment with all leads Complete as per specification PWD SR 2015-								
		No.s	3				**3**		
							3	**1145.00**	**3435.00**
10	Supplying & delivery of brand new best make Gate Valve of size 50mm as per IS:778/84 with latest amendments with ISI mark. 50mm Gate Valve for distributer pipeline. 50mm dia (PWD SR-2015-16, P.No.XXIII, Sl.no,673)								
		No's	3				3.00	**1600.00**	**4800.00**
11	Supplying and fixing 175mm Borewell cap with clampsetAs per approved Rate per SERED Letter No 2081/2010-11'								
		No's	3				3.00	**500.00**	**1500.00**
12	Providing and fixing 50mm GI union to the motor (PWD SR-2014-15, P.No.XXXIX, G.I.Pipe Fittngs -ISI Standards Table)								
		No's	3				3.00	**223.70**	**671.10**
13	Supplying & fixing of 50mm GI Elbow **PWD SR 15-16 XXXIX**								
		No's	3	3.00			9.00	**111.80**	**1006.20**
14	Supplying and delivery at site brand new/Essen/Lotussunsines/Adarsh/GK controls best indigenous make combine energy meter-cum-control panel board unit of size 1200x600x300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the road, canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC Supply shall be consisted etc, completed T								
		No's	3				3.00	**10000.00**	**30000.00**
15	providing and fixing 50mm GI pipe 'C' Class heavy duty for erection of submersible pumpse galvanised tube 50mm supply and delivary of cause heavy duty as per (PRED SR P.No.56.								
		Mtr	3	300.00			900.00	**519.30**	**467370.00**
16	Supplying & fixing of 50mm GI Coller heavy duty PRED SR 2012-13 P-III S-86								
		No's	150				150.00	**150.00**	**22500.00**
17	Erection of combined panel board meter with all necessary materials and labour including providing Cement concrete foundation bed etc,. Complete PRED ISSUE RATE								
		No's	3				3.00	**475.00**	**1425.00**
18	Supplying of TPST with rewirable porcelain channels inSM encloser 15/32 amps P-521, Group Bi-1(b), BWSSB SR 2013-14								
		No's	3				3.00	**1320.00**	**3960.00**
19	supplyng and fixing 500x500x65mm polished wood board made of not less than 15mm thick plank in front plank one end provided for olding at other end fixing the sameof the valve using through bolts and nuts PRED ISSUE RATE								

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		No's	3				3.00	302.50	907.50
20	Supplying and fixing LED Type panel board indicating lamp with required colour suitable for 220 V AC 50Hz 12/24 V DC Group B P.529, I-35(b) BWSSB SR 2013-14								
		No's	3	3.00			9.00	385.00	3465.00
21	Supplying and Drwaing each PVC Insulted 651/100V Grade wire in the conduct (open or concealed system of wiring) 7/20 or 7/36 copper wire P-380, I-20,ii(d),BWSSB SR2012-13.								
		No's	3	10.00			30.00	27.50	825.00
22	Supplying fixing and wiring heavy duty low voltage capacitors conferming I 2834,3 PHASE 400/440 Vts grade for power factor improvement of rotating machinery capacitor in KVAR rating Nos 2 KVAR Capacity P-402 ,34(a) BWSSB SR 2012-13								
	Group A	No.s	3				3.00	385.00	1155.00
23	Supply and Fixing Miniature circuite breakers on existing MCB distribution boards using necessary fixing materials and complete as required P-526 I-13 (P, a) BWSSB SR 2013-14								
		No's	3				3.00	880.00	2640.00
24	Supplying and fixing wiring earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc. the pipe shall have 16 through holes of 12mm dia (P.NO. 552 I.NO.								
		No's	3				3.00	1650.00	4950.00
25	Supplying and fixing of A class (medium duty) GI Pipe of wall thickness not less than 3.25 mm on pole / wall . Drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm dia (Page No.62 Item No.7.12.1)								
		No's	3	9.00			27	286	7722.00
26	Supplying 1.1 KV class UG Cable From nearest Bescom Pole to Panel Board Including Earth Work and Road Restoratio 4 core 16sqmtr P-426,i-10 (d) BWSSB SR 2012-13								
		Mtr	3	40.00			120.00	165.00	19800.00
27	Labour charges for Layeing 1.1 KV class UG Cable when Supplyed by agencies in exisisting trenches GI pipe -stone pipe-on pole as required, P-427,I -11(a) BWSSB SR 2012-13								
		Mtr	3	40.00			120.00	5.50	660.00
28	Digging of trench of 0.60x0.50 Mts wide refiiling the trench to the required ground level and consolidated etc. Complete sutting road surface (Page No-554,I.NO-12(b) , BWSSB SR 13-14)								
		Mtr's	3	15.00			45.00	44.00	1980.00
29	Supplying and fixing LT Cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitimen / insulating compound complete with terminals, clamps, Bolts, nuts & washers etc 4 core 16 Sqmm (Ele SR of 2014-15, Page No.62/7.13.2)								
		No's	3				3	264.00	792.00
30	Supplying and fixing of Porce lain fuse channel with cut-out on existing bar new wooden panel using neseccery nuts,bolts and washers etc.,BWSSB SR P-394 I 173								
		Nos	3	6.00			18.00	440.00	7920.00
31	Bescom Deposit charge and Miscellanious								
		L.S	3				3.00	15000.00	45000.00
32	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No								
		Cum	4	293.00	0.45	0.25	131.85	827.86	109153.34

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33	KSRB 2-2.3: Excavation by manual means for foundation of buildings, water supply & sanitary lines and electrical conduits etc., either in pits or in trenches 1.50m and above in width, in soft rock not exceeding 1.50mtrs in depth including stacking the excavated stuff clear from edges of excavation with lead upto 50mt including cost of explosives,labour, HOM of equipment complete as per specifications specifiation No. KRS 2.1 C/2.0 4/2.18/2.19								
	CC Road cutting portion	Cum	4	293.00	0.45	0.75	395.55		
							395.55	299.98	118657.09
34	Providing and installaing at site od work PVC Pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including joining of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc. complete PVC Pipes Of 60kg/sqm 50mm dia page								
		RMT	4	293.00			1172	235.00	275420
35	Supplying and Fixing 50mm GI Pipes 'B' Class hecy duty (Asper BWSSB Store issued Rate) Note:. GI Pipe using For Road Classing Place								
		No's	4				4.00	1350	5400.00
36	KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(P No 6 I No 2.11 PWD								
		CUM					336.22	80.56	27085.68
37	Transporation Of Pumping Machinerys Pred SR 2012-13 PG 51/10.3.19								
			4				4.00	900.00	3600.00
38	Eraction Of Pumping Machinerys Pred SR 2012-13 PG 51/10.3.20								
			4				4.00	900.00	3600.00
39	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification								
		CUM	4	293.00	0.45	0.10	52.74	5159.02	272086.71
40	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)(Page No. 18.tem								
		CUM	4	293.00	0.45	0.15	79.11	6231.74	492992.95
41	Supplying of drinking water through the water tanker								
			tractor 1-6 loads/days						
			tractor 2-6 loads/days						
			(30Days x 12 loads/day=360 Loads)				360.00	515.00	185400.00
		Load/day							

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								3603320.16	3668818.40
43	KRIDL Charges at ~~8+1%~~ 11%							376365.28	330193.66
44	Miscellaneous and Other Charges							313.90	987.94
								Total	4000000.00
	(Rupees Fourty Lakhs Only)								

3603221.45

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary

2 The Estimate is prepared as per the PWD SR 2016-17

3 The Provision made in estimate are adequate and essential

4 This area comes under BBMP limits.

5 This work is not included in any other estimate.

Asst Engineer
Ward No 13

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Division
BBMP

ನಂ. JC/D/AS/PR/108/1617 ದಿನಾಂಕ : 25/3/17

ರೂ. (Forty Lakhs Only)
Rs. 40.00 lakhs Only

ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಜಂಟಿ ಆಯುಕ್ತರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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ನಂ.CE/TS/JS/17-18 ದಿನಾಂಕ : 19/04/2017

ರೂ. Rs. 40.00 lacs

ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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